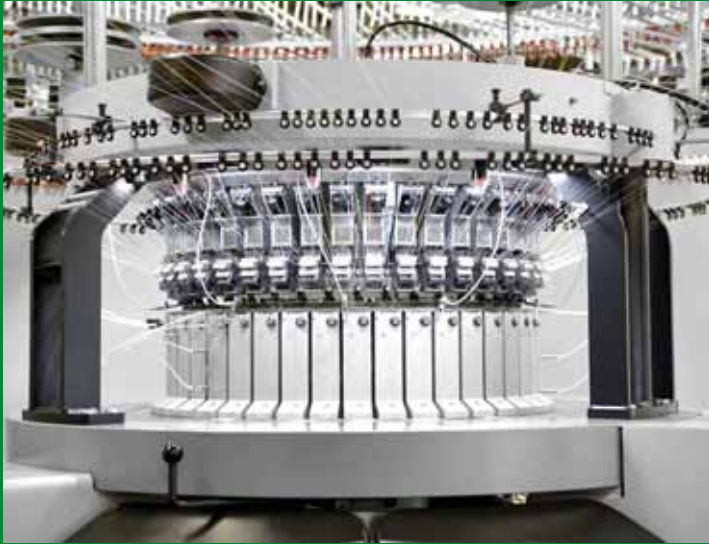


Some of the latest Knitting Technologies introduced recently



Knitwear manufacturers are using a wide range of creative and ingenious decorative techniques to add value to their fabrics and knitted garments today. The development of these new decorative techniques has been facilitated partly by recent innovations in garment technology. As a result, the range of economical design options for designers and manufacturers has been widened. These innovations have centred on machinery for direct to garment digital printing, embroidery, conventional sewing, embellishment attachment, heat transfer and laser decoration. Additionally, interesting advancements in electronic textiles have taken garment decoration beyond the field of aesthetics by enhancing the functionality of garments for their wearers. This report discusses recent developments in technologies for knitted garments and textiles...

■ MACPI – new Pressing Machine for Sweater & Knitted Garments

It's the year 1961 that Macpi was born in the fashion city of Milan, Italy. It's been 61 years, and third generation into the business, that Macpi is serving the Apparel Industry with the same enthusiasm, hard work, and technological innovation and serving the customers worldwide with pressing solutions.

Even though Macpi is serving the Indian customers for more than 4 decades, they open their own branch office in Bangalore in the year 2005, with Sales professionals, Technical experts and spare parts depot for better support to Indian users. The Indian team and its expertise is also much sought after in providing support to Far East, South Asia, Golf and African region. MACPI manufactures Ironing Presses, Laundry machinery, Heat Sealing and Bonding machinery for Stitch-free garments and accessories. Our interlocutors are the best companies in the clothing industry and the main fashion houses in the world.

The name Macpi is synonymous with high quality, high precision and high productivity in the finishing/ pressing of the garments. That's why our customers treat Macpi as a very reliable company to work with.

MACPI-255- Machine for Sweater/ Knitted Garments

One of the top line machines for steaming, pressing and blowing of knitted garments with automatic unloader. Suitable for knitted garments and Sweaters. Besides high quality pressing, it gives approx. Productivity of 2500 half sleeves T-shirts, or 1250 full sleeves/ 8hrs. Machine with automatic feed of the garments by a conveyor belt, foreseen to press all sizes or the simultaneous pressing of two garments with short sleeves.

The machine is divided into two sections:

1. Garment preparation on a working plate (200x100cm), steam heated, steaming and with vacuum.



2. Pressing and drying on the pressing plate, steam heated, steaming and with vacuum.

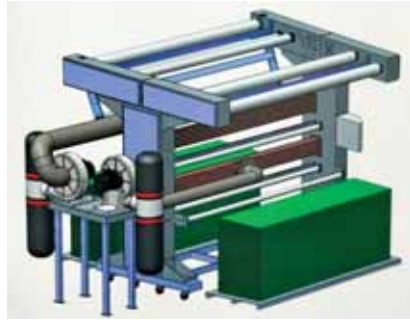
Pressing plate with pneumatic closing, steam heated and steaming, with the possibility to stop the plate in the sponging position.

The machine is featuring the following characteristics and is complete with:

- Plate for garment preparation with adjustable height and inclination
- Adjustable ironing pressure
- Touch Screen TC7"
- Production counter
- Fabric beater pad
- To be connected to the main plants of steam (max. 6 bar), compressed air (max.10 bar)
- Installed power 1,5Kw

■ Fabric Suction Unit – (Bio Wash) by RVR Machinery

RVR Machinery Tech (P) Ltd is fast successful growing industry in Garment Textile Manufacturing with high Qualified, Experienced and efficient work force; we deliver products that surpass international standards. As a known industry leader, we're used to working with all types of customers- local or global, large or small. Exceptional quality is the foundation of our company and is the driving force behind all decisions; whether it's which materials to purchase or the best way to serve our customers. Our commitment to quality guarantees our success and your satisfaction. This is our machine "Fabric – Suction unit (Bio Wash) for effective removal of lint and dust particles in an in – Line operation".



HFI-575H Fabric – Suction unit (Bio Wash)

For effective removal of lint and dust particles in an in – Line operation

- Removal of dust and lint particles in a fabric and also available in two models (single side fabric dust removing and double side dust removing)

- Easily applicable to any existing machine, where it is request on high performance of cleanness from any residual contamination or waste from any previous process
- The External suction unit, is made up of an electric blower connected through PVC pipe to the filter unit or to other exiting suction system
- High flow suction blower for creating required vacuum and suction force for removal of lint and don particles from fabric
- Two ducts are working at the same time on the front and on the rear of the fabric, to assure the maximum cleaning efficiency

■ Adelco launch the updated Hybrid Digital Printing Solution

Adelco is excited to introduce the New Adelco Hybrid Digital System. A high speed textile printer that works seamlessly with their automatic screen printing presses, providing a new value and price point v print speed not found on existing Hybrid systems on the market.

Adelco's Hybrid Digital system is an add-on High Speed Digital Station designed to work in conjunction with the Adelco Automatic Screen Printing Presses, the Cyclone carousel, Matrix Oval and Ellipse Oval. This Hybrid digital system combines the advantages of both screen and digital printing to create even the most innovative garment decoration.

Utilising environmentally friendly inks, The Hybrid can produce A3 format printed substrates in excess of 200 units per hour, and when used in conjunction with a screen printed base providing the lowest ink cost per print. Adelco's Hybrid Digital comes in three print sizes, 40 x 50 cm, 50 x 70 cm and 60 x 80 cm.

Using industrial Ricoh Gen 5 print heads and a 6 colour process (CMYK + RG) Adelco's Hybrid Digital solution can achieve photographic quality and widest colour gamut with CMYK +RG. Files are quick and easy to set up and remove the time, costs and cleaning involved with conventional screen print. Available in both four and six colours.



Luke Smith from Adelco commented "Hybrid solutions aren't new but what we are offering is a full 6 colour printer, which is compact, affordable and fast. We want to make it an easy AD on for screen printers" Adelco will have the Hybrid digital running with their Cyclone carousel in their showrooms in Bordon, Hampshire.

■ One Colour Automatic Textile Screen Printing Machine by Chola



Chola Machine LLP was started in the year 2000. It offers many machines for screen printing industry like Heat Transfer Fusing Machines, Label Transfer Machines, Heat Press Machines, Textile

Curing Machines, Electrical Textile Dryers, Screen Washing Booths, Rotary Fusing Machines, and many more. Here we are covering their newly launched printing machine

Chola Nano – One Colour Automatic Textile Screen Printing machine –

Features:

- Fully automatic system
- Adjustable screen frame holders
- Variable printing stroke length
- Single and multi stroke selection system

- Digital stroke programme systems
- Fine adjustment system
- Pneumatic screen lock systems
- PLC controlled operation
- Separate speed controller for squeezer and flood bar

Specifications:

- Maximum printing area: 80cm x 60cm
- Screen frame size: 100cm x 70cm
- Operating air pressure: 6kg/cm³
- Power consumption: 2Kw / 415V

■ Oval Screen Printing Machine by Dongguan Dopsing

DOPSING has over ten years experience in narrow fabric screen printer reseaching and producing. It is one of the professional suppliers of roll to roll screen printing machine. DOPSING commits to the support and research of its complete range of printing presses and ancillary equipment. Through its advanced computer design and manufacturing facility DOPSING continues to be an earlier one to introduce new technology and ideas to meet the changing demands of the market with new and advance core technology. Cooperate with DOPSING will ensure you remain at the leading edge of technology in textile printing. In India Lotus Technology from Trirupur is the distributor.



DT616 Oval Screen Printing Machine

Application: It is widely used for T-shirt, bag, shoe, leather etc., cut-prices printing material. Especially for high density

printing - Our machine can combined with digital printer, flocking machine, pressing machine to achieve various printing process in one machine.

Features:

- Special honeycomb plate: Honeycomb plate and solid plate can be exchanged freely
- Pure sheet metal construction
- Arbitrary change screen frame and convenient to remove
- Printer operating panel
- Easy to clean screen plate
- Scraper quick-replacing
- Quickly change screen plate
- Touch-screen HMI operation system

■ Computer to Screen Printing Solution by GIS Laser Technologies

GIS Tech Inc. has established a manufacturing and R&D base in Fengxian County, Xuzhou, covering an area of 20,000 square meters, including 1000 square meters of clean workshops. It has R&D and after-sales centers in Suzhou, covering an area of 2,000 square meters, with core teams of 30 R&D people, and it's planned to be expanded to 60 people. The products cover optical, mechanical, electrical systems, software and sports systems. The technical force is strongly supported by a team of experts from Japan and Germany, with a technical team covering high-end talents such as optics, mechanics, electronics, software, etc., as well as completes production facilities and related equipment.

GIS has launched a direct screen laser exposure machine to produce perfect screen plates. These screen plates are used in printing, paper, packaging, PCB, glass and other industries. Data files is directly read by the computer to screen (CTS) and then converted into images which will be transmitted through laser beams onto screens by DMD and lens. Here is their new CTS200 model.

CTS 200 – Advanced Screen Printing Solution Developer

Features & Advantages:

- Digital Imaging Technology: Digital images are produced by DMD (digital micro-mirror device) which has over 800 thousand or 2 million micrometer micro-mirrors, enabling clear and sharp square dots. This latest digital exposure system has now become the new standards for screen printing industry
- High Resolution: It is easy and fast to achieve raster 133LPI and high quality screen dots by the optical 1270dpi, while with the optical 2540dpi, high definition curved lines and perfect FM screen dots can be realized
- Excellent Laser Piercing Power: Excellent laser piercing power, 15W, 20W and 25W three laser powers are optional,



and the thickness EOM 120µm with solvent resistant emulsion and EOM 220µm with water resistant emulsion can be achieved for some special screen making such as carbon oil and capillary

- Compatible Processes with the Conventional Process: Data files are directly read by the CTS and then converted into images which will be transmitted through laser beams onto screens by DMD and lens
- High Precision: Resolutions 1270dpi or 2540dpi, with raster 1331pi/dpi (halftones printing)
- High Efficiency: 3 minutes to finish the exposure on screen size 1000mm*1000mm. Stencil making efficiency has been greatly improved due to a lot of time is saved by the accurate exposure alignment and labour reduction
- Low Cost: Elimination of film positives. Litho films are becoming increasingly expensive and the number of suppliers on the market is rapidly decreasing. 1 procedure of CTS digital screen making to replace 5 procedures of from the conventional process



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Flash Printing Machine by UniTech

Duratech Automation earlier known as Universal Technologies was founded in 2006, and has established by brand name UniTech as professional supplier of screen printing equipments. Coupled with best in class R&D setup, we manufacture and market various types of screen printing machines across the world. UniTech specializes into screen printing machines, pre-press machines, screen printing conveyor dryers and accessories associated with it. Over the years, company has developed and launched various new products and emerged as competitive supplier for our esteemed customers.



Texprint Shuttle - 2 Colour/2 Pallet/1Flash Printing Machine

- The system is designed and engineered for the Textile Printers of the present and future for high quality, large format printing requirements

- The Simple but heavy-duty construction makes it easier to use and virtually maintenance free
- The Texprint Shuttle is programmed with 5 preset modules which makes the operator's job easy
- The module can be selected according to your design, number of colours and number of operators available
- Innovative pallet transfer design makes our machine versatile, fast and maintenance free

Automatic Double Head Bartack Elastic Joint by Hi-Tech Sewing Systems



Hi-Tech Sewing Systems is a professional company developed by a team of experienced engineers with an objective to support the Apparel Industry, Leather Industries & Home Textiles a "complete solution for garmenting", right from cutting to finishing equipment. Their focus is on automation and company is bringing new technologies regularly for increasing the production efficiency. Here we are giving the details of their new Automatic Double Head Bartack Elastic Joint machine.

Automatic Double Head Bartack Elastic Joint machine

Features:

- Hi-Speed
- High-Precision
- Flexible Switching
- Easy operation
- Fault Self – Test
- Memory Function
- Accurate Measuring encoder
- Ultrasonic device

Vertical Reversing Machine by Sri Balaji Engineering

This machine is widely used for recovering the biowash fabric. We give excellent hand feel and shining in the Fabric. Biowash fluffs fully clean in the fabric. We have two types of machines Available. The two types of machines are: Roller Type and Folding Type.

Roller Type machine: In this machines production is high. Continuously running the machine roller gets uneven surface and leads to create mark in the Fabric. Every six month roller should be grinding to avoid this crease mark.

- Bigger diameter around 350 – 400 Kgs/Hr
- Smaller diameter around 250 – 300Kgs/Hr

Folding type machine: In this machine production is low compared to roller type. The machine is maintenance free no crease mark in the fabric.

- Bigger diameter around 300 – 350Kgs/Hr
- Smaller diameter around 200 – 300Kgs/Hr

Benefits:

- Labour cost is very low
- Life expectancy of workers is increased
- Bio Fluffs not fly around the machine
- In the machine, 1 reversing is enough to reversing 3 times in a normal machine



■ Brother High Speed Overlock and Safety Stitch Sewing Machines



Brother International (India) Pvt. Ltd. Incorporated in 2006 operates with fully integrated sales, marketing and service capabilities. Brother delivers latest information about Brother's industrial sewing machine, automatic machine, and valuable data collected from

Brother's IoT system, etc. Below are the newest sewing machines from Brother.

FB-N21A - High Speed Overlock Sewing Machine

Features:

- Electric Presser Foot Lifter: Presser foot is automatically lifted/dropped after sensor detects material. It increases productivity
- Automatic Tape Cutter: A thread chain is automatically cut after sensor detects material. It increases operational efficiency
- Built-in Direct Drive Motor: Powerful and electricity save
- Lint Collector (Option): A thread chain and/or material after cut is sucked by air suction

FB-N31A - High Speed Safety Stitch Sewing Machine

Features:

- Electric Presser Foot Lifter: Presser foot is automatically lifted/dropped after sensor detects material. It increases productivity
- Built-in Direct Drive Motor: Powerful and electricity save
- Automatic Tape Cutter: A thread chain is automatically cut after sensor detects material. It increases operational efficiency
- Lint Collector (Option): A thread chain and/or material after cut is sucked by air suction

■ JACK Overlock Machines with Trimmer

Jack industrial sewing machine company is an undisputed world leader in the sewing category and equipment. Continuously technology, modern solutions, high quality materials and different degrees of work automation in continuous evolution translate into great popularity of Jack devices also for ease of use.

C2, the first single trimming overlock machine, with automatic thread trimming function front and back. It simplifies sewing gestures, improves work efficiency and saves sewing costs. Through this product, the computerization of the direct drive machine is further accelerated.

C2 Birth Background: Based on market insight, we found that it's very inconvenient for unskilled workers to take the fabric to the front end for

trimming. The work efficiency is low, and there is a lot of waste of stitching. Besides, the equipment is unstable and small problems emerge in an endless stream, which delays the work.

C2 Core Value

1. Automatic thread trimming technology. Every time trimming, more than 1.2 meters of stitches can be saved. The overall annual savings can reach \$270.
2. Double light sensors, realize automatic thread trimming function, long-piece fabric, sweeping and other processes. The shortest thread trimming length can reach 10mm.
3. The maximum speed is increased from 5500 rpm/min to 6000rpm/min, increased by 9.1%. which greatly improves worker's efficiency by more than 50%.



Jack is always devoted to make it easy to produce clothes all over the world, which is the aim of Jack and also it's driving force for continuous innovation. And it's the reason that C2 come into being. C2 is scheduled to be released in India after Diwali. Welcome to continue to pay attention to our NEW PRODUCT--C2.

■ High Speed Auto Trimmer Lockstitch Machine by Zoje



ZOJE, founded in 1994, focusing on technology leading and industrial innovation, the company has advanced automation equipment for casting, casing processing, coating and assembly. It has Provincial research Institute and National

high-tech enterprise. ZOJE's international equipment along with advanced science and technology compacted into an excellent quality and formed a unique industrial cluster. The company's products have complete categories and excellent quality. It has high brand awareness and reputation in the international market, and is deeply favoured by users at home and abroad! ZOJE is committed to building a world-class smart sewing brand, providing global customers with higher value smart sewing solutions and making the world

fall in love with ZOJE smart sewing! We are covering Zoje's latest machine.

A6000-D High Speed Auto Trimmer Lockstitch Machine

Features:

- Auto thread Trimmer, increase efficiency
- Energy saving and high efficiency
- Simple direct drive, separate motor
- Stable, efficient and cost effective
- Less noise and low vibration
- New appearance

Unix's new Direct Cotton Digital and Sublimation Textile Printers

Unix Stitchmachines Pvt. Ltd. started its operations in 2005 and has offices in Surat and Ahmedabad. UNIX is one of the most innovative and creative companies emerging in the computer embroidery industry. The company has positioned itself as a pioneer technology supplier in the embroidery industry with a distinctive identity. An outstanding reputation for customer service coupled with a management commitment to quality has made UNIX the preferred supplier for quality embroidery machines.

The wait is over UNIX introducing a brand new Direct Cotton Printer UN-1882E, which prints directly on cotton. The advantages of this printer are that it has Automatic Belt Guiding, Automatic Ink Alarming system, Online-belt washing, and Advanced Head Maintenance.

Features:

- The printer has 6/8 printheads of EPSON I3200-A1
- It has integrated the technology of intelligent capping station design which is more easy to do calibrate



- For best industrial heavy use it has imported quality belt which makes sure that the life of the belt is longer
- For smart industries it has smart feeding media system which is used for more tension or other materials
- The double import THK guide rail is used which makes sure that the carriage moves more smoothly and at the same time reduces the noise

JSRTEX, adopts Alchemie's Dyeing Solution



Taiwan-based JSRTEX, a leading textile innovator in Asia, has completed its first sustainable dye run using the groundbreaking Endeavour™ waterless dyeing system from UK textile industry disruptor Alchemie Technology. Alchemie's Endeavour machine, which JSRTEX has purchased to dye polyester, uses 95 per cent less water and 85 per cent less energy compared to traditional methods. With textile dyeing being the biggest cause of pollution in clothing manufacture, the successful sustainable dye run at JSRTEX is a pivotal moment for the outdoor and fashion industry and a first in Asia.

The Alchemie Endeavour system will address the biggest issues facing the dyeing and finishing industry today: water scarcity, carbon reduction, water pollution, and soaring energy costs. It is predicted that carbon emissions from dyeing and finishing textiles will rise threefold to more than two Giga tonnes of CO2 annually by 2050, making it one of the most polluting industries on the planet.

Alchemie Endeavour, developed in one of the world's high technology clusters in Cambridge, UK, will form the centre piece of a demonstration hub and showroom in Asia. Brands and manufacturers are welcome to request an invitation to come and see the sustainable dyeing process in action at JSRTEX's plant in Taiwan.

Taiwan is a rising star in the global textile market, witnessing significant growth in recent years. It has transformed from mass production to more innovative integrated product chains. The country is the world's seventh largest textile exporter and home to over 4,300 textile manufacturing businesses. The use of waterless dyeing technology is the first step in JSRTEX's wider sustainable vision, named Pureline™, which will bring together the world's most revolutionary textile manufacturing solutions, from fibre to textile finishing, creating an integrated eco-friendly supply chain.

The Pureline™ concept aims to reduce the carbon footprint and water consumption of each stage of textile manufacturing from the initial fibre to the dyeing and finishing of the final textile. Alchemie's technology will play a major part in Pureline, which will also include its Novara digital finishing system - which uses up to 85 percent less energy, up to 95 per cent less water, and up to 50 per cent less chemistry to apply functional finishes to fabric.

Alan Hudd, Founder of Alchemie Technology, said: "Having an Endeavour demonstration hub in Taiwan, and our partnership with JSRTEX, is another key milestone on our journey towards transforming the textile industry, as we aim to stop 500 mn tonnes of CO2 emissions being produced by the outdoor and fashion industry by 2030."

Steve Lin, Chairman of JSRTEX, said: "Sustainability is at the heart of our vision for our business. Taiwan is the epicentre of advanced textile manufacturing technologies in Asia, and we are proud to be playing our part in setting new sustainability benchmarks and working with pioneering brands to accelerate the change to a cleaner dyeing and finishing industry"

Future Fusing Technologies by Master Enterprises

Master Enterprises, established in the year 2000. They are the manufacturer, wholesaler, trader, retailer, and service provider of fusing machines, fusing machine belts, conveyor belts, digital thermometers, and many more. In addition, they also provide prompt and reliable repair and maintenance services for the fusing machines manufactured by them. Being a trader, we trade our products under the brand names of Rollax, QWB, Resin, and many more. We are a manufacturer of fusing machines and feed on conveyors like ME 250, ME 450, FF 600LF & FF900LF Fusing Machines with feed on conveyor attachment. We offer service and calibration for all types of fusing machines. The most recent future-fusing innovations from Master Enterprises.

Feed on Conveyor

Features:

- Imported motor used for low power and long durability
- Belt made on firm stability technology
- Long life with low maintenance



- Increase your production by 50% to 70% more
- Safe mode prevents mistakes
- Emergency cut off technology
- Additional rollers provided for lining ribbons
- Portable glass platform for small fusing

FF-600LF/900LF - Straight Liner Fusing Press

Features:

- Big diameter pressure roller is equipped, increase pressure balance, fusing quality, durability.

- New upper heater increase heating efficiency, decrease heat loss
- By select heater control switch, the temperature of the upper and lower, front and rear heaters can be easily controlled
- The seamless belt has been adopted to increase the durability of the belt
- The air pressure system adopted to make simple adjustment and correct pressure
- The puckering prevention roller is equipped
- The position of the roller can be adjusted easily to apply for any material
- Future Fusing is equipped with rotary strip off device as standard



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■ Plotter Cutting Machine by Mimaki

Mimaki is a leading manufacturer of wide-format inkjet printers, textile printers cutting plotters and 3D printers for the sign/graphics, industrial and textile/apparel markets. Mimaki develops the complete product range for each group; hardware, software and the associated consumable items, such as inks and cutting blades. The company excels in offering innovative, high quality and high reliability products, based upon its aqueous, latex, solvent and UV-curable inkjet technology. The distributor of this machine in India is Green Printing Solution, Noida.

CG-SRIII Series (CG-60/100/130SRIII)

Main Features

- A maximum cutting pressure of 500g for a wider range of materials



- Up to 2 times the curve cutting speed increases productivity
- Event Notification function for remote monitoring - Plot start/end, error/warning message
- Continuous Crop Mark Detection for precise stickers and seals.

- New Segment Compensation, which detects intermediate crop marks, enables accurate contour cutting of long-length prints
- Upgrade of firmware can be done quickly and easily by user.
- Ethernet connection for LAN use as well as USB2.0 and RS-232C

Other Functions

- Division Cut Function: Division cut of data larger than sheet width
- Overcut Function: Minimize uncut portions by overlapping the starting and ending point
- Larger LCD: 3-inch LCD (liquid crystal display) ensures easy operation
- Ethernet Connection: Network control via integration into office LAN

■ Stretch and Recovery Tester (Moveable Type) by Amith Garment

Amith Garment Services is in the business of quality control and testing, measuring, inspection of instruments and equipment and serving textile industry in India and abroad since more than twenty years. Its products are working all over the world helping textile manufacturers to ensure their product quality.

Stretch and Recovery Tester – 6Stations, moveable type

Purpose: To measure stretch percentage and recovery properties of woven/knitted and lycra fabrics/narrow elastic tapes.

Features:

- Static growth tester consists of six

numbers of clamp arrangements and three numbers of clamps to hold the tested fabric by its sides

- The board can move from one place to another place with help of trolley in built
- Test weight shall be rectangular in shape and its weight as per standards, including the weight of hook required for hanging the test sample
- Static load is applied for a specific time and released as per test standards
- Dead Weight as per test standard supplied
- Operating Manual with test procedure & Calculation given



■ Non-Curable Water-based Inks by Shin Nakamura Japan



Shin Nakamura Chemical manufactures poly functional monomers for use in printing, packaging, containers, and

electronics industries. The distributor for these inks in India is Green Printing Solution, Noida. Screen Printing Inks Solutions for Sports & polyester Fabric (No bleeding and Dye Migration)

Non-Curable Water-based Inks

- Non curing Inks for Printing Polyester Fabric with Sports brand Compliant for Direct Printing.
- Inks do not require curing

- Excellent solution for DYE Migration on Polyester and Blend fabrics
- No Curing Required
- Extremely excellent wash-fastness@ 60 degree for 60 minutes
- Suitable for Sports

Semi PU resins inks, Best available solution for Printing on sports and Polyester Garments. The inks are self curing and no need for oven drying.

■ The Energy Efficient Dryer and Exposure Unit by **Anatol**

In 1982, Anatol Topolewski founded Anatol Automation Incorporated as a company specializing in high-speed automated assembly systems. In 2003, Anatol Automation changed course to focus exclusively on screen printing equipment and became Anatol Equipment Manufacturing Co. We've made great strides in the development of screen printing equipment. Anatol currently hold patents for a number of advancements that make our screen printing machines some of the safest and most user-friendly on the market. The distributor for these Anatol machines in India is Green Printing Solution, Noida.

SOLUTIONS - High Efficiency Electric Dryer

When gas is not an option, Anatol electric screen printing conveyor dryers are the perfect Solution. The Solutions Series dryers are ideal for t-shirt and textile printers looking for an efficient and affordable curing unit. They feature more ceramic heating panels than similar dryers for even heat throughout the



chamber. The Solutions dryers feature the same double-wall construction as Anatol's gas dryers, re-enforced with high-efficiency thermal insulation. Solutions Series electric dryers offer programmable temperature controls with automatic cool-down. Solutions electric dryers are available in six configurations, with four basic models, from 24" belts with 4' of heat up to 60" belts with 10' of heat.

■ First model released by **JUKI-PEGASUS** collaboration and joint development

Juki Corporation (Akira Kiyohara, Chairman & CEO located at Tama-shi, Tokyo, Japan) and Pegasus Sewing Machine Mfg Co Ltd (Shigemi Mima, President & CEO located at Osaka-Shi, Osaka, Japan) have entered into a basic transaction agreement on April 26, 2021 to move forward with a business collaboration in the sales and development fields and announce to release the first model by joint development "Differential Lower Feed Safety Stitch Machines and Overlock Machines with integrated Control box M900/DJ series" in April 2022.

The machines are supplied by both companies as part of the "JUKI Smart Solutions" product lineup. M900/DJ series are compact sewing machines integrating with direct-drive motor, control box and operation panel. Pneumatic lint collector (LC) and presser foot lifter (PL) and operator friendly LED light is provided as standard. The machine achieves a practical maximum sewing speed of 7,000sti/min.

M900/DJ2x can automatically set thread trimming function by detecting the edge of material with sensor. With safety function to prevent false operation, operators are prevented from mistakenly cutting material and getting injured by false operation.

Safety stitch machines and Overlock machines are lined up in M900/DJ series

Features:

- Automatic thread trimmer with a material sensor: The M900/DJ Series of sewing machine is provided as standard with the side cutter with 2-point material sensor (DJ21,22) and the Chain-off the thread trimming device with a 3-point material sensor (DJ23). Under the full-automatic mode, the material sensor detects the presence / absence of the material to prevent the operator from erroneously operates the side cutter etc. In addition to the full-automatic mode, the manual mode and the semi-automatic mode can be selected.



- The cover sensor unit and cover micro switch unit: The cover sensor unit and cover microswitch unit that detect 1, 2 and 3 (shown below) are closed tightly during sewing, thereby preventing the sewing machine from starting up unexpectedly.
- Operation panel and control box are integrated with the machine head
- The energy-saving and highly efficient servomotor is installed in the direct-drive style.
The sewing machine quickly starts up and stops with increased accuracy, thereby demonstrating improved responsiveness.
- USB port: The USB port is standard on the control panel and you can easily upgrade the software.
The M900/DJ has another one USB port for charging a smartphone, etc.
- For the LED light, the improved toning function with two additional colors (white / light bulb color) is provided. Illuminance of the LED light is adjustable in five levels.
This LED light helps reduce the operator's eye fatigue who is engaged in sewing work for a long time.